

Listing of Claims:

Claim 1 (Cancelled).

Claim 2 (Cancelled).

Claim 3 (Cancelled).

Claim 4 (Cancelled).

Claim 5 (New) A data exchange unit for communicating with a counterpart unit through a transmission line using, as a unit, a packet including header and data fields, the exchange unit comprising:

    a transceiver for converting electrical signals received through a transmission line into a plurality of packets;

    a reception filter for dividing the plurality of packets received from the transceiver into a first group of packets and a second group of packets;

    a packet processor for fetching necessary information from the first group of packets; an

        DMA controller for transferring the necessary information from the packet processor through a DMA bus.

Claim 6 (New) The data exchange unit of Claim 2, further comprising:

    a central processing unit for processing the second group of packets.

Claim 7 (New) The data exchange unit of Claim 1, further comprising:

    a reception buffer for temporally storing the second group of packets from the reception filter to the central processing unit.

Claim 8 (New ) The data exchange unit of Claim 1, further comprising:

    a transmission reception buffer for temporally storing the first group of packets from the reception filter to the packet processor.